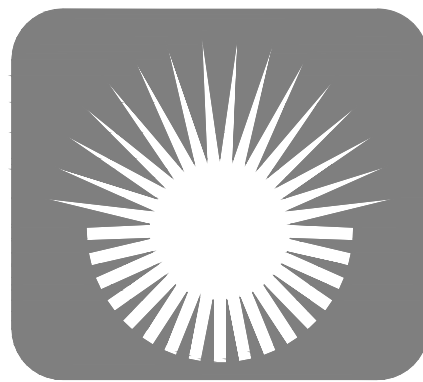




NORTH BAYTM
HEALTHCARE
MICROBIOLOGY- PHARMACY T.I.
1200 B. GALE WILSON BLVD.
FAIRFIELD, CA 94533

**ALARM SERVICE CONTRACTOR:
EQUIPMENT PROVIDER:**
EDWARDS SYSTEMS TECHNOLOGY
5666 LA RIBERA STREET, SUITE E
LIVERMORE, CALIFORNIA 94550
CONTRACTOR # 890931
UL # S3204



Sabah
International
5925 Stoneridge Drive
Pleasanton, CA 94588-2705
(925) 734-5750
State Lic. #381218

MONITORING INFORMATION

| ZONE | PROTECTED PREMISES |
|------|--------------------|
| 1 | ALARM |
| 2 | TROUBLE |

CALIF. SECURITY ALARMS
1009 S. CLAREMOUNT ST.
SAN MATEO, CA
94402
UL# 244872-003

CIRCUIT INFORMATION

| CLASS | STYLE | DESCRIPTION |
|-------|-------|--|
| B | Y | POWER LIMITED AUDIO AND VISUAL CIRCUIT |
| B | 4 | POWER LIMITED ADDRESSABLE DEVICES DATA CIRCUIT |

ALL CIRCUIT POWER SUPPLIES ARE POWER LIMITED.

BUILDING INFORMATION

BUILDING HAS FIRE SPRINKLER PROTECTION

OCCUPANCY CLASSIFICATION: I-1.1 HOSPITAL
BUILDING CNSTRUCTION TYPE: TYPE V -1 HR
BUILDING HEIGHT: ONE FLOOR

SHEET INDEX

FA-0 COVER SHEET
FA-1 INSTALLATION INFORMATION
FA-2 CALCULATIONS & RISER DIAGRAM
FA-3 DEVICE DETAILS
FA-4.1 FLOOR PLAN
FA-4.2 ROOF PLAN

SCOPE OF WORK

INSTALL NEW DEVICES TO BRING AREA OF WORK UP TO CURRENT
FIRE CODE PER NFPA-72, CBC, NEC, OSHPD, AND LOCAL CODES
FIRE ALARM DEVICES SHALL BE ADDED TO AN EXISTING FIRE ALARM SYSTEM.
-INSTALLATION OF (12) NEW GENESIS SERIES SPEAKER STROBES.
-INSTALLATION OF (1) NEW 405 SERIES STROBES.
-INSTALLATION OF (4) NEW SIGA-IPHS SMOKE DETECTORS.
-INSTALLATION OF (5) NEW SIGA-CR CONTROL RELAYS.
-INSTALLATION OF (14) NEW SIGA-PS SMOKE DETECTORS.
-INSTALLATION OF (4) NEW SIGA-DH DUCT DETECTOR HOUSING.

OSHPD CHECKLIST

- OSHPD FIRE ALARM PLAN CHECK REQUIREMENTS
1) SCOPE OF PROJECT. (SEE FA-0)
2) FLOOR PLAN SHOWING FIRE ALARM DEVICES. (SEE FA4-4)
3) SINGLE LINE RISER DIAGRAM. (SEE FA-2)
4) POINT TO POINT DIAGRAM. (SEE FA-2)
5) CSFM LISTINGS SHEET SHOWING EXPIRATION DATE FOR COMPONENTS. (SEE SUBMITTAL BOOKS)
6) MANUFACTURES' SPECIFICATION SHEET ON ALL FIRE ALARM EQUIPMENT (SEE SUBMITTAL BOOKS)
7) OSHPD PROJECT NUMBER. (ALL SHEETS) (NOT ASSIGNED)
8) BATTERY CALCULATIONS. (SEE FA-2)
9) VOLTAGE DROP CALCULATIONS (SEE FA-2)
10) SYMBOL OF ALL FIRE ALARM DEVICES BEING INSTALLED. (SEE FA-0)
11) ELEVATION DETAIL OF MANUAL PULL STATION AND VISUAL DEVICES. (SEE FA-1)
12) LOCATION OF FIRE / SMOKE BARRIER WALLS ON FLOOR PLAN. (SEE FA4-BA THRU FA4-4)
13) IDENTIFICATION OF TYPE OF WIRING USED (SEE FA-4)
14) DESIGN NUMBER AND DETAIL OF THROUGH PENETRATION FIRE STOP SYSTEM (SEE FA-1)
15) FLOOR PLAN SHOWING ROOM IDENTIFICATION. (SEE FA4-4)
16) DETAILS ON SUPPORT AND ANCHORAGE OF FIRE ALARM EQUIPMENT WEIGHING OVER 20 POUNDS.
NEW BOOSTER POWER SUPPLY WEIGHT IS LESS THAN 20 LBS.
17) SEQUENCE OF OPERATION / EVENTS WHEN ALARM SYSTEM IS ACTIVATED. (SEE FA-0)

GENERAL NOTES

1. ALL REQUIREMENTS OF CONTRACT SPECIFICATIONS AND DRAWINGS APPLY.
2. INSTALLATION SHALL CONFORM TO AL REQUIREMENTS OF APPLICABLE ELECTRICAL CODES.
3. WIRING METHODS AND MATERIALS SHALL CONFORM WITH ALL APPLICABLE SECTIONS OF NEC ARTICLE 760.
4. SEE EST FIELD WIRING SPECIFICATIONS FOR ADDITIONAL INSTALLATION REQUIREMENTS.
5. 120VAC 60 Hz INPUT POWER FOR FIRE ALARM CONTROLS SHALL BE DEDICATED, LOCKING BREAKER PROPERLY LABELED "FACP". LABEL SHALL BE RED.
6. ALL WIRING, INCLUDING SHIELDS, MUST BE DRY AND FREE OF SHORTS AND GROUNDS.
7. PROVIDE EST WITH ONE COPY OF "AS BUILT" DRAWINGS SO THAT ACCURATE DOCUMENTATION CAN BE MAINTAINED.
8. 120VAC IS NOT PERMITTED IN SAME CONDUIT WITH LOW VOLTAGE WIRING.
9. DO NOT APPLY POWER EXCEPT IN THE PRESENCE OF A FACTORY TRAINED EST TECHNICAL REPRESENTATIVE.
10. ANY SMOKE DETECTOR HEAD INSTALLED BEFORE BUILDING IS CLEANED AND ACCEPTED SHALL BE COVERED TO PROTECT FROM DUST. ANY FALSE ALARMS DUE TO DIRT-CONTAMINATED HEADS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
11. THERE WILL BE NO CONDUIT ENTRY ALLOWED 18" OR LOWER ON THE SIDE PANELS OR THROUGH THE BOTTOM OF ALL CONTROL EQUIPMENT BACKBOXES.
12. CONDUIT AND JUNCTION BOXES ARE DIAGRAMMATIC ONLY. EXACT LOCATION MAY VARY DUE TO FIELD CONDITIONS. ACTUAL INSTALLATION LOCATIONS SHALL BE DETERMINED BY THE INSTALLER CONTRACTOR.
13. SIGNALING CIRCUIT WIRE RUNS ARE CRITICAL. ANY INCREASE IN LENGTH OF WIRE MAY EFFECT CIRCUIT CONFIGURATION.
14. DO NOT LOCATE SMOKE DETECTORS WITHIN 3 FEET OF SUPPLY AIR VENTS.
15. O.S.H.P.D. FIRE MARSHAL SHALL WITNESS FINAL TEST.
16. THE FIRE ALARM SYSTEM SHALL CONFORM TO ARTICLE 760 OF THE CALIFORNIA ELECTRICAL CODE 2001 EDITION WITH 2001 CALIFORNIA AMENDMENTS. INCLUDING 1999 EDITION NFPA 72.
17. UPON COMPLETION OF THE INSTALLATION OF THE FIRE ALARM SYSTEM, A SATISFACTORY TEST OF THE ENTIRE SYSTEM SHALL BE MADE IN THE PRESENCE OF THE O.S.H.P.D. FIRE MARSHAL.
18. A MINIMUM OF 48 HOURS NOTICE SHALL BE REQUIRED FOR ANY INSPECTION AND/OR TESTING.
19. ALL DEVICES OF THE FIRE ALARM SYSTEM SHALL BE APPROVED AND LISTED BY THE CALIFORNIA STATE FIRE MARSHAL.
20. A STAMPED SET OF APPROVED FIRE ALARM PLANS SHALL BE ON THE JOB SITE AND USED FOR INSTALLATION. ANY DEVIATION FROM APPROVED PLANS, INCLUDING THE SUBSTITUTION OF DEVICES, SHALL BE APPROVED BY THE O.S.H.P.D. FIRE MARSHAL.
21. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND THE CODE OR RECOGNIZED STANDARDS SHALL BE BROUGHT TO THE ATTENTION OF THE INSPECTOR OF RECORD.
22. A CERTIFICATE OF COMPLIANCE SHALL BE PREPARED BY THE INSTALLER AND GIVEN TO THE O.S.H.P.D. FIRE MARSHAL UPON COMPLETION OF THE INSTALLATION.

SEQUENCE OF OPERATIONS

| TO COMPLY WITH SYSTEM CONFIGURATION THE ACTUATION OF DEVICE SHALL CAUSE THE FOLLOWING TO OCCUR: | | OUTPUT | | | | | | | | | | | | | | MONITOR | |
|---|-------------------------------------|--------------------------|---------------------------|---|--|---|--|--|--|----------------------------------|------------------------|--------------------------|------------------------------------|--|---|---|--|
| | | ANNUNCIATE ALARM AT FACP | ANNUNCIATE TROUBLE AT ACP | ANNUNCIATE SUPERVISORY CONDITION AT ACP | ANNUNCIATE PATIENT ROOM SWK ALARM AT ICD NURSE STATION | ANNUNCIATE ASSOCIATED PATIENT ROOM DOME LIGHT | ANNUNCIATE ALARM AT FIRE ALARM ANNUNCIATOR | ANNUNCIATE TROUBLE AT FIRE ALARM ANNUNCIATOR | ANNUNCIATE SUPERVISORY COND. AT FIRE ALARM ANNUNCIATOR | ELEVATOR PRIMARY ELEVATOR RECALL | ACTIVATE AUDIO/VISUALS | UNLOCK CARD ACCESS DOORS | RELEASE HELD-OPEN AND POWER ASSIST | ACTIVATE ASSOCIATED PATIENT ROOM IDENTIFICATION AND SIGNAL BBS | SEND ALARM SIGNAL TO MONITORING STATION FROM DIALER | SEND TROUBLE SIGNAL TO MONITORING STATION FROM DIALER | |
| INPUT | | | | | | | | | | | | | | | | | |
| ALARM SIGNALS | AREA SMOKE / HEAT DETECTOR | X | | | | | X | | | X | X | X | | X | | | |
| | FIRE ALARM MANUAL PULL STATION | X | | | | | X | | | X | X | X | | X | | | |
| | WATER FLOW SWITCH | X | | | | | X | | | X | X | X | | X | | | |
| | DUCT DETECTOR | X | | | | | X | | | X | X | X | X | X | | | |
| SUPERVISORY SIGNALS | VALVE SUPERVISORY TAMPER SWITCH | | | X | | | | X | | | | | | | X | | |
| | POST INDICATOR VALVE | | | X | | | | X | | | | | | | X | | |
| TROUBLE SIGNAL | SYSTEM TROUBLE | | X | | | | | X | | | | | | | X | | |
| | AC POWER FAILURE | | X | | | | | X | | | | | | | X | | |
| | BACK UP BATTERY FAILURE | | X | | | | | X | | | | | | | X | | |
| | DEVICES OR CIRCUIT TROUBLE | | X | | | | | X | | | | | | | X | | |
| | REMOTE BOOSTER POWER SUPPLY TROUBLE | | X | | | | | X | | | | | | | X | | |

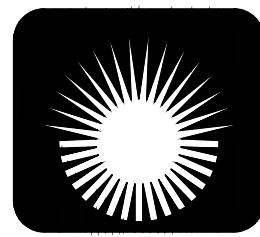
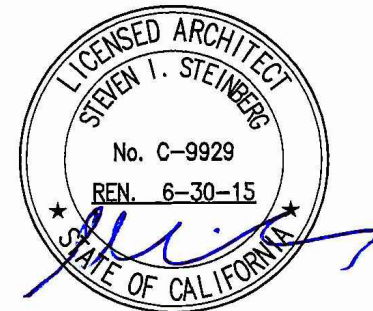
SYMBOLS LIST

| SYMBOL | QTY NEW | QTY (E) | MANUFACTURER & PART # | DESCRIPTION | CSFM# |
|--------|---------|---------|-----------------------|------------------------------------|----------------|
| | -- | 1 | IRC-3 | EXISTING FIRE ALARM CONTROL PANEL | 7165-1657:0147 |
| | -- | 2 | BPS10A | REMOTE BOOSTER POWER SUPPLY | 7300-1657:0229 |
| | -- | -- | LSRA | ANNUNCIATOR | 7120-1657:0196 |
| | 14 | 8 | SIGA-IPHS | 4D SMOKE DETECTOR | 7258-1657:0123 |
| | -- | -- | SIGA-SB | STANDARD BASE | 7300-1657:0120 |
| | -- | 3 | SIGA-HRS | INTELLIGENT SMOKE DETECTOR | 7270-1657:0125 |
| | -- | -- | SIGA-SB | STANDARD BASE | 7300-1657:0120 |
| | 3 | 2 | SIGA-DH | DUCT SMOKE DETECTOR HOUSING | 3240-1657:0108 |
| | -- | -- | SIGA-PS | PHOTOELECTRIC DUCT SMOKE DETECTOR | 7272-1657:0126 |
| | -- | -- | SIGA-SB | STANDARD BASE | 7300-1657:0120 |
| | 4 | -- | RUSKIN FSD60 | PROVIDED BY OTHERS | -- |
| | -- | 1 | GC-S7VM | CEILING MOUNT SPKR/STRBE | 7320-1657:0211 |
| | 9 | 4 | EST G4-S7VM | WALL MOUNT SPKR/STRBE | 7320-1657:0211 |
| | 1 | 5 | 405-BA-T | CEILING-MOUNT STROBE, 110cd | 7125-1657:0184 |
| | -- | -- | LKC-1 | LENS FOR CEILING-MOUNT APPLICATION | 7125-1657:0184 |
| | -- | -- | 757-1A-SS70 | SPEAKER | 7320-1657:0211 |
| | 3 | 3 | SIGA-CR | RELAY MODULE | 7300-1657:0121 |
| | -- | -- | SIGA-CC1 | AUTO SYNCOUTPUT MODULE | 7300-1657:0121 |
| | -- | -- | -- | JUNCTION BOX | -- |
| | -- | -- | -- | FLOW SWITCH | -- |
| | -- | -- | -- | TAMPER SWITCH | -- |
| | -- | -- | -- | *PULL LISTED END OF LINE RESISTER | -- |

NOTE: 1. STROBES ARE SYNCHRONIZED.
2. THESE DEVICES ARE NEW UNLESS OTHERWISE SPECIFIED.
2. THESE DEVICES ARE NEW UNLESS OTHERWISE SPECIFIED.
1 - CSFM LISTINGS PROVIDED WITH PRODUCT DATA SHEETS.

RATCLIFF

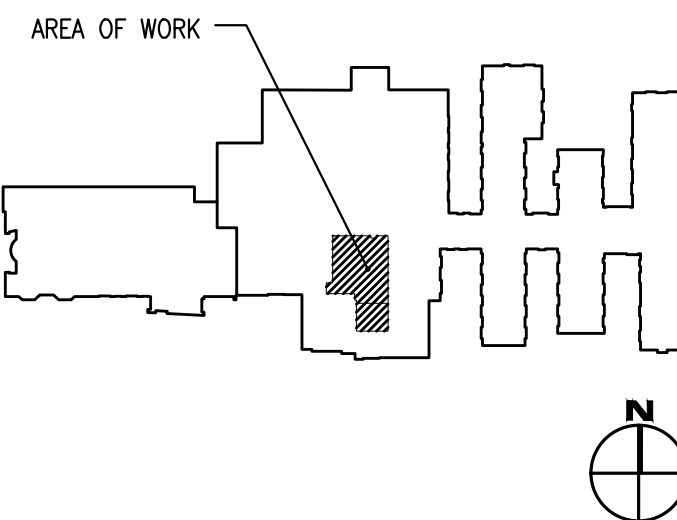
5856 Doyle Street
Emeryville CA 94608
Tel 510 899 6400
Fax 510 899 6404
www.ratcliffarch.com



Sabah
International
5925 Stoneridge Drive
Pleasanton, CA 94588-2705
(925) 734-5750
State Lic. #381218

| ISSUE SCHEDULE: | △ | DATE: |
|-------------------------------------|---|------------|
| 100% CRITERIA DESIGN | | 06/07/2010 |
| 50% DETAILED DESIGN | | 12/02/2010 |
| 100% DETAILED DESIGN | | 12/21/2010 |
| 50% IMPLEMENTATION DOCUMENTS | | 01/14/2011 |
| 100% IMPLEMENTATION DOCUMENTS | | 02/22/2011 |
| OSHPD 1ST ROUND BACKCHECK RESPONSES | △ | 07/08/2011 |
| OSHPD 2ND ROUND BACKCHECK RESPONSES | △ | 10/26/2011 |
| CHANGE ORDER #10 | △ | 05/22/2014 |
| REVISED PER CUSTOMER COMMENTS | △ | 06/25/2014 |
| AS-BUILT | | 05/21/2015 |

OSHPD PROJECT NO. HS101819-48



**NORTHBAY
MEDICAL CENTER**

1200 B. GALE WILSON BLVD.
FAIRFIELD, CA 94533

**PHARMACY/MICROBIOLOGY
RENOVATON**

DRAWING TITLE

COVER SHEET

SCALE: N/A
PROJECT NO: 33040.00

DRAWN BY: KC
CHECKED BY: --

SHEET NO:

FA-0